

THE TOOL COMPANY

# HOT AIR GUN

■ PART No.HG1601

■ STOCK No.53266

## • INSTRUCTIONS •

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS TOOL.

**IMPORTANT:**  
The heating wire element of this hot air gun has a protective coating. Please note that due to the vaporization of this coating, some smoke may be generated during/after the first 20-30 seconds of use only.



07/97



## SPECIFICATION

Whilst every effort has been made to ensure that the information given in this manual is correct at the time of going to print, the Draper Tools policy of continuous improvement determines the right to change specification without notice.

PART No..	HG1601
STOCK No.	53266
Power	1600W
Temperature	400/590°C
Voltage	230V/50Hz
Air flow volume	300/500 L/min
Weight (machine only)	784g.

The typical sound pressure level of this tool is less than 78dbA.

The noise level whilst working could exceed 85dbA - WEAR EAR PROTECTION.

Typically the hand-arm vibration is below 2.5m/s<sup>2</sup>.



## GUARANTEE

Draper machine tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 12 months from the date of purchase except where tools are hired out when the guarantee period is reduced to ninety days from the date of purchase.

Should the machine develop any fault, please return the complete tool to your nearest authorized warranty repair agent or contact Draper Tools Limited, Hursley Road, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England. Telephone: (01703) 266355.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted or made by any personnel other than the authorized Draper warranty repair agent.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorized.



Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the 12 month period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

DRAPER TOOLS LIMITED.

## POWER SUPPLY

### CONNECTING YOUR MACHINE TO THE POWER SUPPLY:

To eliminate the possibility of an electric shock, your machine has been fitted with a BS approved, non rewirable moulded plug and cable which incorporates a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced an  approved BS1362 fuse must be used of the same rating, marked thus .

The fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red). Fuse covers are available from your Draper Tools stockist.

If the fitted plug is not suitable, it should be cut off and destroyed. \*The end of the cable should now be suitably prepared and the correct type of plug fitted. See below.


#### \*WARNING:

A plug with bare flexible wires exposed is hazardous if engaged in a live power socket outlet.

**WARNING: THIS APPLIANCE MUST BE EARTHED.**

Green and Yellow - Earth, Blue - Neutral, Brown - Live.

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green and yellow must be connected to the terminal in the plug which is marked with the letter 'E' or by the earth symbol  or coloured green or green and yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter 'N' or coloured black or blue.

The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red or brown.

**N.B.** Three phase machines must be connected by a qualified electrician.

### EXTENSION LEAD CHART:

**Extension lead sizes shown assure a voltage drop of not more than 5% at rated load of tool.**

Ampere rating (on Name plate)	3	6	10	13
Extension Cable Length	Wire Size mm <sup>2</sup>			
7.5m	0.75	0.75	1.0	1.25
15m	0.75	0.75	1.0	1.5
22.5m	0.75	0.75	1.0	1.5
30m	0.75	0.75	1.25	1.5
45m	0.75	1.25	1.5	2.5

#### IMPORTANT:

Please note this machine is fitted with safety thermal overload protection. If the product, for example, is used too close to the workpiece - resulting in overheating, the thermal overload protection will be activated and stop the motor/heating of the machine.

The hot air gun should be switched off and disconnected from the power supply, allowing the machine to totally cool down - before restarting work.

Remember the nozzle will remain hot for sometime - a safe storage location should be used.



## SAFETY WARNING

### WARNING

Please read the following instructions carefully, failure to do so could lead to serious personal injury.

### IMPORTANT

Draper Tools Limited recommends that this machine should not be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us in writing and we will advise you.



## GENERAL SAFETY INSTRUCTIONS FOR MACHINE TOOLS

### 1. KNOW YOUR MACHINE TOOL

Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

### 2. KEEP GUARDS IN PLACE

and in working order.

### 3. REMOVE ADJUSTING KEYS AND WRENCHES

Form a habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.

### 4. KEEP WORK AREA CLEAN

Cluttered areas and benches invite accidents. Floor must not be slippery due to oil or sawdust.

### 5. AVOID DANGEROUS ENVIRONMENT

Do not use power tools in damp or wet locations or expose them to rain. Keep work area well lit. Provide adequate surrounding work space.

### 6. KEEP CHILDREN AWAY

All visitors should be kept a safe distance from work area.

### 7. MAKE WORKSHOP CHILDPROOF

- with padlocks, master switches, or by removing starter keys.

### 8. DO NOT FORCE TOOL

It will do the job better and safer at the rate for which it was designed.

### 9. USE RIGHT TOOL

Do not force tool or attachment to do a job for which it was not designed.

### 10. WEAR PROPER CLOTHING

Do not wear loose clothing, gloves, neckties or jewellery (rings, wristwatches) to catch in moving parts. NON SLIP footwear is recommended. Wear protective hair covering to contain long hair. Roll long sleeves above the elbow.

### 11. USE SAFETY GOGGLES (Head Protection)

Wear safety goggles (must comply with BS 2092) at all times. Normal spectacles only have impact resistant lenses, they are NOT safety glasses. Also, use face or dust mask if cutting operation is dusty and ear protectors (plugs or muffs) during extended periods of operation.

### 12. SECURE WORK

Use clamps or a vice to hold work. This frees both hands to operate tool.

### 13. DO NOT OVERREACH

Keep proper footing and balance at all times.

### 14. MAINTAIN TOOLS WITH CARE

Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

### 15. DISCONNECT POWER TO THE TOOLS

Before servicing, when changing accessories such as cutters etc.

### 16. AVOID ACCIDENTAL STARTING

Make sure switch is in 'OFF' position before plugging in cable to the power supply.

### 17. USE RECOMMENDED ACCESSORIES

Consult the owner's manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.

### 18. NEVER STAND ON TOOL

Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted. Do not store materials above or near the tool such that it is necessary to stand on the tool to reach them.

### 19. CHECK DAMAGED PARTS

Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform its intended function. Check for alignment of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

### 20. DIRECTION OF FEED

Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

### 21. NEVER LEAVE MACHINE RUNNING UNATTENDED

Turn power off. Do not leave machine until it comes to a complete stop.

## ADDED SAFETY RULES FOR HOT AIR GUNS

NOTE: A FIRE COULD ARISE IF THIS HOT AIR GUN IS NOT USED WITH CARE.

1. Ensure that the hot air gun is switched OFF before connecting to the power supply.
2. Do not use this hot air gun as a hair dryer.
3. Do not touch the hot metal nozzle.
4. Allow the hot air gun to cool down completely before storing.
5. Do not direct the flow of hot air at persons or animals.
6. Do not hold the metal nozzle too close to the workpiece as the air flow will be restricted and may cause the hot air gun to overheat. Position the nozzle at least 1" (25mm) from the work surface.
7. Use in well ventilated area as poisonous or inflammable fumes or gases may be produced from certain plastics, paints or similar materials.
8. When working with or near easily combustible materials and inflammable gases, take special care. (Do not apply heat to any one area for long periods of time).
9. Heat may be conducted to combustible materials which are not visible from the work area.
10. Never leave the hot air gun running whilst unattended.
11. Do not look directly into the metal nozzle when the machine is switched on.
12. Place the hot air gun in its free standing position (see Fig.4 page 5) after use and allow it to cool down before storing it.
13. **THE CERAMIC RODS MAY BECOME LOOSE BUT IN NO WAY DOES THIS ALTER THE SAFETY OR THE PERFORMANCE OF THE PRODUCT.**

## KNOW YOUR HOT AIR GUN

1. BS approved non-rewireable 3 pin moulded plug and cable.
2. ON/OFF, air flow and temperature control switch (three position).
3. Metal nozzle.
4. Hanging ring for storage/free standing support.
5. Air intake vents.



## OPERATION

**IMPORTANT** - ensure that the machine is switched OFF before connecting to the power supply.

### ON/OFF SWITCH

The ON/OFF switch has three positions/settings, see Figs.1, 2 and 3. Fig.1 shows the switch in the OFF position, 2 shows the switch in low heat position and Fig.3 shows the switch in the higher heat position.



Fig.1



Fig.2



Fig.3

### FREESTANDING OPERATION

This hot air gun can be positioned as shown in Fig.4 (free standing), this allows the user to have both hands free which is essential for certain applications, eg. pipe bending, plastic welding etc. Position the hot air gun on its end and position the support foot (A) as shown in Fig.4.



Fig.4

## APPLICATIONS

The following instructions should only be used as a guide as the ideal temperature should be ascertained by performing a test on the workpiece. Heating efficiency will vary depending on the properties of the workpiece, and the distance kept between the metal nozzle and the workpiece.

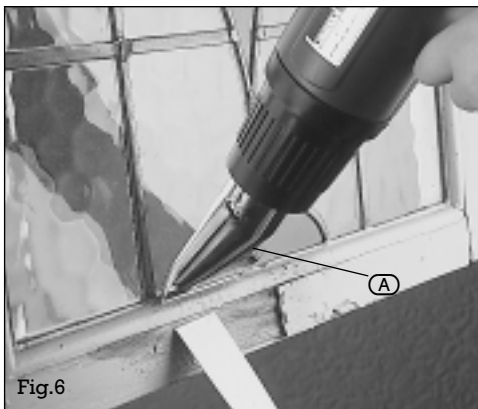
### PAINT REMOVAL Fig.5

Switch the hot air gun on to the higher heat setting and position the metal nozzle at least 1" from the work surface. Now move the hot air gun gently over a small area, as the paint softens and blisters carefully remove the paint using a suitable scraper or spatula. Note: Do not heat the paint too long as the paint will burn thus making it more difficult to remove.



### PAINT REMOVAL FROM WINDOW FRAMES Fig.6

**IMPORTANT:** Do not direct the hot air gun at the glass during use as it may crack. Always use the glass protection nozzle (A) (not supplied see optional accessories, page 8). Do not touch the glass with the hot metal protection nozzle. Repeat as above for paint removal.



### HEATING AND SHAPING PLASTIC TUBING

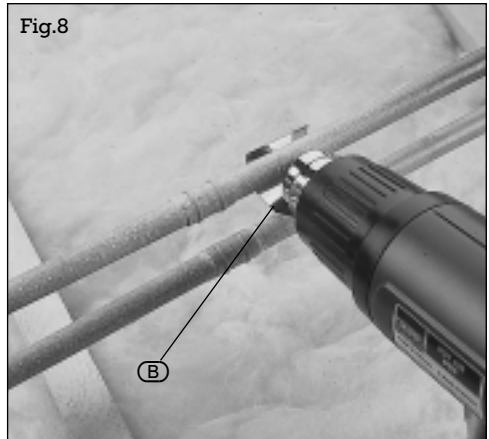
Fit the reflector hook nozzle (B) Fig.7 (not supplied see optional accessories, page 8). Switch the hot air gun on to the low heat setting, carefully heat the tubing evenly moving it from side to side.



## APPLICATIONS Cont'd

### DEFROSTING WATER PIPES

**IMPORTANT:** Do not defrost plastic tubing/piping. Fit the relector hook nozzle (B) Fig.8 (not supplied see optional accessories, page 8). Switch the hot air gun on to the higher heat setting, gently heat the frozen area of the pipe starting from the edge of the area and moving in towards the centre. **IMPORTANT:** take care not to heat the pipe too quickly as this could cause the pipe to crack and burst. Do not overheat water pipe joints as these are only soldered together (max. 200°C).







## MAINTENANCE

### WARNING

For your own safety always turn the main switch on the machine OFF and remove the plug from the power source before carrying out any maintenance or troubleshooting.

Check that the air inlet vents are clean and not blocked in any way.

### IMPORTANT:

**Please note all repairs/adjustments should be carried out by a qualified person.**

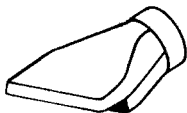
**POWER DIVISION HELPLINE:**

**01703 494313**



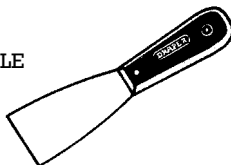
## OPTIONAL ACCESSORIES

The following accessories are available from your local Draper Stockist.



**GLASS PROTECTION NOZZLE**

Part No. AHG1  
Stock No.34410



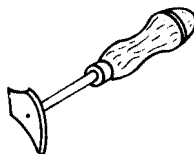
**WALL SCRAPERS**

Part No. 49325 (2")  
Stock No.13865  
Part No. 49335 (3")  
Stock No. 13866.



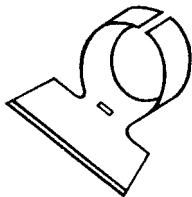
**REFLECTOR HOOK NOZZLE**

Part No. AHG2  
Stock No.34412



**COMBINATION SHAVE HOOK**

Part No. D116  
Stock No. 52677



**SCRAPER NOZZLE**

Part No. AHG4  
Stock No.34550



## DECLARATION OF CONFORMITY

We Draper Tools Ltd. Hursley Road, Chandler's Ford, Eastleigh, Hampshire.  
SO53 1YF. England.

Declare under our sole responsibility that the product:

**Part No.** HG1601.

**Stock No.** 53266.

**Description:-** Hot Air Gun

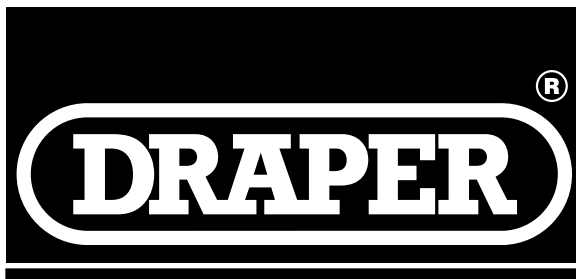
To which this declaration relates is in conformity with the following  
directive(s) 73/23/EEC & 89/336/EEC

with reference to EN60335-1, EN60335-2-30, EN50082-1, IEC801-2, IEC801-3,  
IEC801-4, EN55014, EN60555-2 & EN60555-3.

**J.N. DRAPER**  
Managing Director



## NOTES



**THE TOOL COMPANY**

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YOUR DRAPER STOCKIST

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